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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/789,941	02/27/2004	Osamu Miyazawa	9319A-000704	6781
27572 75	90 09/23/2005		EXAM	INER
HARNESS, D	BUDD, MARI	K OSBORNE		
HARNESS, DICKEY & PIERCE, P.L.C.  P.O. BOX 828  BLOOMFIELD HILLS, MI 48303  ART UNIT PAPER	PAPER NUMBER			
DESONII IEEE	DECOMINED MADE, M. 10000		2834	

DATE MAILED: 09/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	10/789,941	MIYAZAWA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Mark Budd	2834				
The MAILING DATE of this communicate Period for Reply	ion appears on the cover sheet w	ith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA:  - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communica:  - If the period for reply specified above is less than thirty (30) da:  - If NO period for reply is specified above, the maximum statutor:  - Failure to reply within the set or extended period for reply will, It Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	TION.  CFR 1.136(a). In no event, however, may a ration.  ys, a reply within the statutory minimum of third y period will apply and will expire SIX (6) MON by statute, cause the application to become AE	reply be timely filed  ty (30) days will be considered timely.  ITHS from the mailing date of this communication.  BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed or	n .	•				
1	This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
_	action					
<ul> <li>4) Claim(s) 1-16 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> </ul>						
5)☐ Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-16</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction	and/or election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) $\boxtimes$ The drawing(s) filed on <u>27 February 2004</u> is/are: a) $\boxtimes$ accepted or b) $\square$ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for f a)⊠ All b)□ Some * c)□ None of:		119(a)-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
See the attached detailed Office action fol	r a list of the certified copies not	received.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview S	ummary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-9	48) Paper No(s	)/Mail Date				
3) Information Disclosure Statement(s) (PTO-1449 or PTO-Paper No(s)/Mail Date 8 - 8 - 0 5 \$ 2 - 2 - 2 - 2	(SB/08) 5) ☐ Notice of In	formal Patent Application (PTO-152)				
J.S. Patent and Trademark Office	5, <u>Galoi.</u>	·				
PTOL-326 (Rev. 1-04)	ffice Action Summary	Part of Paper No./Mail Date 20050921				

Application/Control Number: 10/789,941

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim1-4 and 7-16 rejected under 35 U.S.C. 103(a) as being unpatentable over Miyazawa (393)). Miyazawa figures 7 and 13 clearly show a vibration element which includes first and second piezoelectric element's that undergo extension and contraction when supplied with an appropriate AC signal. An arm portion ((68)) and a contact portion (66)) are also shown. In Miyazawa does not disclose any specific dimensions. However, it has long been held that optimizing a known structure (for example through routine experimentation) is within the skill expected of the routineer. Thus, arriving at a specific longitudinal dimension (e.g 1-20mm) would have been obvious to one of ordinary skill in the art.

Claimsis 1-16 are rejected under 35 USC (a) as being obvious in view of Miyazawa (223). This reference teaches (see figures 3,6,7,9,13, 15-18 and 20-22) all of the claimed features except

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for the longitudinal dimensions. As noted above, selection of specific dimensions would have been obvious to one of ordinary skill in the art. Regarding claims five and six which read on applicantsfigure 28, please notefigure 15 of Miyazawa (223).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Budd whose telephone number is 571-272-2019. The examiner can normally be reached on Monday through Thursday from 6 a.m. to 4 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg, can be reached on 571-272-2044. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mark Budd Primary Examiner Art

Unit 2834